

Division of Laboratory Sciences

First Quarter 2022 Publications

National Biomonitoring Program

[Urinary phthalate and DINCH metabolite concentrations and gradations of maternal glucose intolerance.](#) James-Todd T, Ponzano M, Bellavia A, Williams PL, Cantonwine DE, Calafat AM, Hauser R, Quinn MR, Seely EW, McElrath TF. Environ Int. 2022 Mar;161:107099. Epub 2022 Jan 24.

[Pregnancy exposure to phthalates and DNA methylation in male placenta – An epigenome-wide association study.](#) Jedynak P, Tost J, Calafat AM, Bourova-Flin E, Broséus L, Busato F, Forhan A, Heude B, Jakobi M, Schwartz J, Slama R, Vaiman D, Lepeule J, Philippat C. Environ Int. 2022 Feb;160:107054. Epub 2022 Jan 13.

[Identification of profiles and determinants of maternal pregnancy urinary biomarkers of phthalates and replacements in the Illinois Kids Development Study.](#) Pacyga DC, Haggerty DK, Nicol M, Henning M, Calafat AM, Braun JM, Schantz SL, Strakovsy RS. Environ Int. 2022 Apr;162:107150. Epub 2022 Mar 2.

[Correlates of non-persistent endocrine disrupting chemical mixtures among reproductive-aged Black women in Detroit, Michigan.](#) Schildroth S, Wise LA, Wesselink AK, Bethea TN, Fruh V, Taylor KW, Calafat AM, Baird DD, Henn BC. Chemosphere. 2022 Jul;299:134447. Epub 2022 Mar 28.

Tobacco Laboratory

[Changes in Biomarkers of Tobacco Exposure among Cigarette Smokers Transitioning to ENDS Use: The Population Assessment of Tobacco and Health Study, 2013–2015.](#) Anic GM, Rostron BL, Hammad HT, van Bemmel DM, Del Valle-Pinero AY, Christensen CH, Erives G, Faulcon LM, Blount BC, Wang Y, Wang L, Bhandari D, Calafat AM, Kimmel HL, Everard CD, Compton WM, Edwards KC, Goniewicz ML, Wei B, Hyland A, Hatsukami DK, Hecht SS, Niaura RS, Borek N, Ambrose BK, Chang CM. Int J Environ Res Public Health. 2022 Jan 27;19(3):1462.

[Cigarette smoking is associated with acrylamide exposure among the U.S. population: NHANES 2011–2016.](#) Kenwood BM, Zhu W, Zhang L, Bhandari D, Blount BC. Environ Res. 2022 Jun;209:112774. Epub 2022 Jan 22.

[High-Performance Liquid Chromatography-Tandem Mass Spectrometry Analysis of Carbonyl Emissions from E-Cigarette, or Vaping, Products.](#) McGuigan M, Chapman G, Lewis E, Watson CH, Blount BC, Valentin-Blasini L. ACS Omega. 2022 Feb 21;7(9):7655–7661.

[Variability in Urinary Nicotine Exposure Biomarker Levels Between Waves 1 \(2013–2014\) and 2 \(2014–2015\) in the Population Assessment of Tobacco and Health Study.](#) Ashley DL, Zhu W, Wang L, Sosnoff C, Feng J, Del Valle-Pinero AY, Cheng Y, Chang CM, van Bemmel D, Borek N, Kimmel HL, Silveira ML, Blount BC. Nicotine Tob Res. 2022 Mar 25;ntac056.

Nicotine Exposure in the U.S. Population: Total Urinary Nicotine Biomarkers in NHANES 2015-2016.

Mazumder S, Shia W, Bendik PB, Achililu H, Sosnoff CS, Alexander JR, Luo Z, Zhu W, Pine BN, Feng J, Blount BC, Wang L. *Int J Environ Res Public Health.* 2022 Mar 19;19(6):3660.